The Text

Vol. IV — LOWELL TEXTILE SCHOOL. MAY 30, 1922 — No. 13

I'LL NEVER TELL!

Scores Biggest of Hits at Lowell Opera House

Mr. Winkfield, and his gang actors and actoresses, surely deserve all the praise that has been handed them since the big show.

The show was the biggest hit that ever landed in Lowell, as all the Lowell residents who saw it will tell you. A great part of the success is due to the untiring work of the efficient staff that Mr. Winkfield entrusted the management to. A lot of hard work got the show well advertised all over the city and the ticket department followed this up with a large mailing canvass of ticket applications. The stage department handled their end finely, and the costumes and scenery looked pretty snappy. The stage department's best effort was on the "Designing Dines" which was a wonder and received a instantaneous burst of applause.

The evening of the show wasn't very good, but that didn't keep the crowds away. Before eight o'clock the floor was well filled, and the patrons were enjoying the souvenir program. The program was well gotten up and the credit goes to Zaeger, '23.

The show itself ran off smoothly, was clever in lines, and had plenty of action. Who would ever believe we had all those chorus girls at school. And beauties too, everyone of them, ranging from brunettes to peroxide blondes. The "Old Maids" don't rate much praise on their beauty, but their song and dance was a knockout.

"Jimmy" Reynolds, the dancing instrictor developed some clever eccentric dancing aets which added greatly to the show. But the outstanding feature of the whole production was Flagg's acting. In his character of "Jack" he proved to be a most versatile young man, and turned in an evening's work that would have been a credit to any actor. One of the best numbers was his impersonation of Harry Lauder.

It is especially pleasing to see the people of Lowell co-operating with the fellows from school as heartily as they did on this occasion.

Now we must congratulate Mr. Winkfield and his "gang", and look forward to another show next year even better than "I'll Never Tell," if such a thing is possible.

Financial Report of "Billeted"

SHOW PROPER

Total Receipts	$740.53
Total Expenditures	386.70
Profit	$353 83

PROGRAM

Total Receipts	$175 00
Total Expenditures	135.89
Profit	$ 39.11
Profit from Show	$353 83
Profit from Program	39 11
	$392.94

Joseph A. Webster
Walter B. Holt
James Guthrie Dow

Constitution of the Class of 1925 of the Lowell Textile School

ARTICLE I.

NAME

The name of this organization shall be "The Class of 1925" of the Lowell Textile School.

ARTICLE II.

MEMBERSHIP

There shall be two classes:

1. Three year men.
2. Four year men.

All candidates for a diploma in 1924 and all candidates for a degree in 1925 shall be members of this organization.

ARTICLE III.

OFFICERS

Sec. 1. The officers of this organization shall consist of:

1. President.
2. Vice-President.
3. Secretary and Treasurer.
4. One member of the Executive Council.

Sec. 2. These officers shall hold office from October to June, or until their successors are elected.

ARTICLE IV.

ELECTION OF OFFICERS

Sec. 1. The election of officers shall take place the last Friday preceding the final examinations of each year.

Sec. 2. The election shall be held by Australian Ballot.

Sec. 3. Nominations for officers shall be made in petition form. Said form must contain at least ten (10) names of members in good and regular standing of the class of 1925. All petitions must be in the hands of the nominating committee before one o'clock of the Friday preceding elections.

Sec. 4. All names of nominees shall be posted on the main bulletin board on Monday morning preceding elections.

Sec. 5. Members of the class shall sign but one nomination paper for each office.

(Continued to Page 2)

Meeting of the A.S.M.E. May 11, 1922

At the final meeting for the year of the A. S. M. E. held in the lecture hall of the school on May 11, 1922, a very interesting talk was delivered by Mr. Francisco Parlan of the class of 1922. Mr. Parlan took as the subject of his lecture, The General Conditions in the Philippines, and with the addition of 114 colored slides succeeded in portraying a very fine picture of the social and commercial advancements of the Islands.

During the course of his lecture, Mr. Parlan brought out clearly the facts concerning the fitness of the Philippine people to set up an independent nation. An intimate knowledge of his subject, with the pictures shown, enabled Mr. Parlan to add a personal note to his lecture that proved doubly entertaining to his audience.

Artificial Sunlight for Testing Fastness of Colors

A unique and interesting device which simulates the qualities of sun rays and will artifically test the fading qualities of many different kinds of materials, has recently been developed in the laboratories of the Cooper-Hewitt Electric Company.

Testing the fastness of colored cloths, paints, inks, dyes, straw, varnishes, etc., is by means of this apparatus accomplished more efficiently and in much shorter time than the customary method, now in use by manufacturers in giving long sunlight tests to their product before marketing.

A light that is faster and better than sunlight is needed in the routine testing of materials for their resistance to its destructive action. The sunlight method is so slow as to defeat its own purpose in the control of factory products or the examination of incoming materials.

Practically all of the color fading, rubber aging, skin tanning effects of sunlight are due not to the visible light, but to the invisible, ultra-violet light.

(Continued to Page 2)

Textile Wins Four Out of Six

The baseball squad has turned in a good account of itself since the first two games of the season. As you can see by the team averages published elsewhere in the Text the fellows have been hitting pretty consistently, and playing a good game in the field. Our pitching staff this year is going strong. Ray and Claude Farwell are pitching their regular good game, while Jack Blanchard played a fine game at Cambridge against the strong Harvard 2nd team.

CLARK COLLEGE GAME

On April twenty-ninth Clark came to Lowell to take a trimming. It was a pretty good game to watch, because there was plenty of variety and excitement. Blanchard started in the box and got along good until the fourth inning when Coach Ganley put in Ray Farwell. Clark didn't get many hits, but collected some runs. Our boys hit the ball hard but had hard work getting the runs across. The score was 10 to 9 in our favor and the hits were 15 to 6 in our favor. The score was tied up in the seventh, but our half of the ninth Beaven got a single, Macher was hit by the pitcher, and Captain Sullivan scored Beaven with a single.

NORTHEASTERN COLLEGE AT LOWELL

The team scored another victory May 3rd when they took Northeastern into camp 7 to 4. Ray Farwell did the pitching, and Beaven caught, as "Pop" Olson had a bad hand and played the field. Northeastern opened up with a pair of runs in the first, but Textile came back strong and hung up three in their half. Two more for Northeastern in the third and we tied it up in the fifth. In the sixth the fellows pounded the ball hard and won the game with three runs. The game ended with no more scoring. Farwell and Beaven starred at bat with two singles and a double apiece.

PROVIDENCE COLLEGE AT PROVIDENCE

Rain prevented the team from playing Colby on May fifth, so the next game was at Providence. All three pitchers worked in the game while Olson was back behind the bat. The team was still hitting hard and landed fourteen safeties for a total of twelve runs. It was a loosely played game on a poor field, but there was lots of action for your money. The last end of the batting order collected the hits, and the team had a field day generally. But they turned in a win which was what counted.

The T. C. A. Plans For The Coming Year

The T. C. A. officers are busy preparing for a big year in 1922-23. Plans for the Freshman Bulletin are already under way and next year's book will be better than those of the last few years. Considerable information, formulae, etc., will be added to the bulletin which will help super-classmen as well as freshmen. Leonard Wilcox has charge of next year's book and he intends to make it a success.

During the past year the T. C. A. did not do very much to help the students, but next year things are going to be different. Arrangements have been made to have the show room for a reading room and before the fellows get back in the fall it will be all ready for the students. Everette Steele is busy campaigning to get the faculty and others to subscribe to some magazine for the T. C. A. If you are interested in seeing the T. C. A. succeed do your bit by helping us to get funds enough to supply the room with number of good magazines.

The officers of the T. C. A. have appointed the following men to act on the T. C. A. cabinet for the coming year: Hall, Dunnican, Harmon and Jaeger.

Supporting Balloons By Helium Gas

Recent Tests Recall Interesting Story of a Strange Occupant of the Air We Breathe

By R. B. Moore
U. S. Bureau of Mines

Recent tests of Helium as a non-inflammable gas for balloons calls attention to the interesting history of this strange occupant of the air we breathe.

Helium is in the air in the proportion of one part in 185,000 by volume; neon, one part in 60,000; argon, one part in 104; krypton, one part in 19 millions, and xenon, one part in 190 million. These gases are all inert, do not react with other elements, and for this reason probably more than for any other, they have excited great interest among chemists. Next to hydrogen he ium is the lightest gas known, having twice the density of hydrogen.

Helium has been liquefied by Professor Onnes in Leyden. The liquid boils at —2 8.75° C. which is very close to absolute zero that is —273° C. Onnes is the only one who has liquidified helium, and he used the small amount of liquid obtained to determine some of the properties of matter at this extremely low

(Continued to Page 3)

LOWELL TEXTILE BASEBALL SEASON 1922

LAMBERT W. SULLIVAN, Capt. M. R. BRACKETT, Mgr.
ROBERT GANLEY, Coach

Date	Opponent	Result TEX.	Result OPP.
April 22	Worcester Tech at Worcester	2	4
April 26	Fitchburg Normal at Lowell	5	6
April 29	Clark College at Lowell	10	9
May 3	Northeastern College at Lowell	7	4
May 5	Colby College at Lowell	RAIN	
May 10	Providence College at Providence	12	10
May 13	Norwich University at Lowell	4	3
May 17	Harvard 2nd at Cambridge	4	6
May 19	N. H. State College at Lowell	0	2
May 27	Providence College at Lowell		
June 3	St. Michael's College at Lowell		

Cacklings from the "Coop"

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(From the Double Page Frontispiece)

The Text

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NOTICE

All material handed in to this paper must be written upon one side of the paper only.

EDITORIAL

"Upstream Day." Lost, strayed or stolen. It seemed strange this year not to have our regular school holiday and outing at the Martin Luther Grounds. Some of us have looked forward to the day when Faculty and undergraduates meet on a common basis, and it is not over stating the case when we say that we are sorry to see the day go by.

The big question is, why did interest suddenly disappear among the fellows. Last year it was generally conceded that we had the best "Upstream" ever held. The Alumni were back, the baseball games were good, there were some fine races, and a cigarette rush. All the boys came back to work, tired but happy and feeling that their instructors were just regular fellows after all. Such a feeling is good, and must be to keep co-operation and friendship alive between the Faculty and the student body.

"Upstream" has been an institution at Textile, just like flag rushes, rope pulls, and class banquets are institutions at other colleges. The college spirit is strong in some places just on account of such things. With the older Colleges and Universities it is tradition which keeps closer relationship between the students themselves, and between the students and their instructors.

A college is built upon co-operation and spirit, so to carry Textile to the front rank we should get together, and not let customs already established slip away from us. The trouble seems to lie with the students for one-fifth of the total tickets sold were taken by the instructors.

So let us get together and bring back "Upstream" next year, and have a bigger and better party than ever.

Constitution of the Class of 1925 of the Lowell Textile School

(Continued from Page 1)

ARTICLE V.

CLASS MEETINGS

Sec. 1. Regular class meetings shall be held on the first and third Tuesdays of each month at 4.30 p. m. in Southwick Hall.

Sec. 2 Notices of the meetings shall be posted on the main bulletin board on the Friday preceding the meeting by the nominating committee

ARTICLE VI.

CLASS DUES.

Class dues shall be $1.00 per annum, same to be paid to the Treasurer not later than the second meeting of the school year.

ARTICLE VII.

COMMITTEES

Committees shall consist of a chairman and two other members. The committees shall be appointed by the chair and in turn will elect their own chairman

BY-LAWS

Sec 1. Duties of the President.

The president shall represent the class as one member of the executive council, and shall preside at all meetings He shall be a member ex-officio of all committees.

Sec 2 Vice-President.

The vice-president shall preside at all meetings in the absence of the president.

Sec. 3. Secretary and Treasurer.

The secretary and treasurer shall keep the records of all meetings and shall collect all dues and assessments pertaining to the class

Sec 4.

Members to Executive Council shall consist of the president and one member of the class and shall represent the class at their meetings. They shall voice the opinion of the class and cast a vote for the class only after they have consulted the class

Sec 5.

Special meetings may be called at the call of the president or upon petition of twenty (20) members of the class of 1925

Sec. 6. Quorum

A quorum of twenty-five (25) members of the class of 1925 shall be required before any business may be transacted.

Sec 7. Voters

Only those members whose annual dues are paid shall be allowed to vote or sign any nomination papers.

Sec. 8. Committees.

The committees of the class shall consist of the Social Committee which shall look after all social functions of this class. The Nominating Committee (as provided for in the constitution) shall take care of all elections and the publishing of all notices. Any special committee may be appointed by chair as need may arise.

Sec 9. Voting.

All votes of this class, excluding that of the annual election, shall be by rising vote

Sec 10. Misunderstandings.

Any difficulties that may arise and cannot be satisfactorily settled within the class itself shall be referred to a board of arbitration which shall consist of one member of the faculty and presidents of the upper classes Views on both sides of the subject shall be presented in writing to this board of arbitration. Their decision shall be final The member of the faculty shall be appointed by class vote

Sec. 11. Amendments.

This constitution may be amended by a two-thirds vote of the members in good standing of the Class of 1925.

Sec. 12.

No amendment to the constitution shall be voted upon at any meeting unless it has been published on the Main Bulletin Board for at least five (5) days preceding the meeting.

Subscribe to the Text

Artificial Sunlight for Testing Fastness of Colors

(Continued from Page 1)

The ultra-violet or invisible rays of sunlight have little effect on human beings due to the absorption of much of them in the atmosphere. The artificial fading cabinet, however, built to produce a light with a high concentration of ultra-violet rays. This is secured through the use of the mercury vapor arc light in bulb or tube of pure glass of fused quartz the radiation from which contains a relatively very much larger proportion of short wave ultra-violet light and less of heat waves such as produced by the carbon or other types of arc lights.

Around this light is a series of panels which may be revolved and in which are placed the materials to be tested. Twenty or more samples may be exposed at one time. The rate of fading averages 12 times that of sunlight. A 30 day sunlight test which would require ordinarily about two months (due to interruptions on cloudy or rainy days) can now be made in 10 hours.

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Land Light Houses!

Demonstrations with an apparatus consisting of a large size searchlight and a huge inclined mirror, which have just been completed by the searchlight engineers of the General Electric Company at Schenectady, N. Y., are believed to be fore runners of land lighthouses for the use of aeroplanes at night.

The equipment used in the tests comprised a 36-inch, high intensity searchlight having a capacity of 325,000,000 beam candlepower and a mirror sufficient large to reflect this powerful beam. The searchlight was enclosed in a housing structure and remained stationary. The beam played through a window in the house upon the mirror and was reflected straight up into the sky to a great height. The mirror was inclined at an angle of 45 degrees, and was movable, allowing the light beam to be rotated in the air.

The proposal is to identify the town or station by rotating the light in a certain manner. Thus a string of these land lighthouses could be set up, 25 miles apart, between two points, like New York and Washington, and to the aeroplane pilot familiar with their signals they would constitute a perfect guiding path through the night, as well as identify desired landing places. By enclosing the searchlight, this delicate apparatus would be protected at all times from the weather.

In the General Electric tests, the light beam was observed at points from 65 to 75 miles distant. Land light houses, if established, would be only about half as far apart, however.

Supporting Balloons By Helium Gas

(*Continued from Page 1*)

temperature. What has been done is significant enough to make it very desirable to have liquid helium in quantity so that further experimental work along this line may be carried out.

Helium is found in the gasses of many mineral springs. It is also found in natural gas in a large number of localities in the United States, particularly in Texas, Oklahoma, Kansas and Ohio. About four hundred million cubic feet of helium is going to waste each year from this source alone.

Since helium is not inflammable and has 92 per cent. of the lifting power of hydrogen, during the war, it became of great military value. The plan was to substitute helium for hydrogen in balloons and dirigibles, and thus make it impossible to bring these vessels to earth by means of incendiary bullets. Such a change would make tremendous progress in aeronautics, for both commercial and war purposes.

With this object in view, the U. S. Government has experimented on the extraction of helium from natural gas in Texas, and during the war three experimental plants were built and operated. At present one of these experimental plants is still being operated and a large production plant has been constructed at Fort Worth. It is hoped that the Government will support these plants on account of the fact that the United States is the only country in the world at the present time which has sufficient helium in its natural gas for war and commercial purposes.

The origin of helium in natural gas is uncertain. During radioactive changes, helium is thrown off in the form of the alpha particle, which is a helium atom with two positive charges. However, we are not acquainted with sufficient supplies of uranium, or thorium ores to account for the large volumes of helium present in natural gas in this country.

If the helium does not come from radioactive changes, it might have come from the sun, if the earth was really thrown off from the sun. The atmosphere, of surrounding envelope of the sun, consists of incandescent hydrogen and helium. It is possible that the vicious mass of the earth in passing through the sun's atmosphere picked up sufficient gas to account for the helium now found below the earth's crust.

The price of helium before the war was approximately $2000 a cubic foot. It is believed that in the new plant at Fort Worth helium may be produced for a little less than 6 cents a cubic foot.

Courtesy Engineering Foundation.

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Baseball Team Averages, Including New Hampshire State Game

NAME	A B	Hits	Ave.	Chances In Field	Errors	Fielding Average	Stolen Bases	Games
Macher	32	11	.344	30	7	.767	3	8
Olson	30	10	.333	66	1	.985	1	8
Blanchard	3	1	.333	2	0	1.000	0	3
Farwell, R.	16	5	.312	16	2	.875	0	5
Farwell, C.	7	2	.286	6	0	1.000	0	3
Valentine	29	8	.276	14	0	1.000	2	8
Bearans	34	9	.264	19	1	.948	1	8
Sullivan	32	8	.250	6	0	1.000	4	8
Reynolds	31	7	.225	43	8	.814	2	8
Marble	28	5	.179	32	5	.845	2	8
Mathieus	30	5	.166	66	2	.970	1	8
Richardson	1	0	.000	0	0	.000	0	1

PLEASE SUPPORT THEM!!

FROTH

Shanahan all dolled up in his new golf suit yelled "Four" as he took another ball from the Green River.

* * * *

It is reported that "Knock Kneed Sam" Shanahan has kindly consented to demonstrate for the Straight Leg Garter Co. during the summer months.

* * * *

Shanahan: "Hold my pahn Olive."
She: "Not on your Life boy."

FOOTBALL SCHEDULE 1922

September 30
Trinity at Hartford

October 7
Providence College at Lowell

October 14
Tufts 2nd at Lowell

October 21
Worcester Tech at Worcester

October 28
M. I. T. at Lowell

November 4
Colby at Lowell

November 11
Rhode Island State at Kingston

November 18
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